

#### ABSTRACT

An air conditioner for an automobile having a passenger compartment comprising is provided, including an air control system to control a property of air entering the passenger compartment, a manual setting member through which the property of the air is manually controlled, and a control system that automatically controls the property of the air based on a control characteristic. The control system updates the control characteristic based on an input from the manual setting member and based on a variable learning rate. The variable learning rate may be based on a time value measured between a first adjustment of the manual setting member and a second adjustment of the manual setting member and based on a magnitude of the second adjustment of the manual setting member. The property of the air entering the passenger compartment may be volumetric flow rate or temperature.